



## **APPENDIX 2-1**

### **Biennial Review and Signatures**

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- 2010 IRWM Biennial Review and Signatures



## **Santa Barbara County IRWM Region Integrated Regional Water Management Plan - 2007 Biennial Review**

**November 2010**

### **Background**

In November of 2004, the Department of Water Resources (DWR) and the State Water Resources Control Board (SWRCB) released the *Integrated Regional Water Management Grant Program Guidelines* which set forth the requirement of an adopted Integrated Regional Water Management (IRWM) Plan as a pre-requisite to applying for and obtaining IRWM grant monies. In response to the need for development of such a plan, the Santa Barbara County Water Agency, along with 29 other jurisdictions, districts, JPAs, private water companies and others organized to form the "Cooperating Partners" group. The first Memorandum of Understanding (MOU) was developed and executed in 2005 with the expressed intent of IRWM plan development and application for Proposition 50 monies. The MOU provided for judicious Cooperating Partners cost sharing to write the IRWM Plan and established a governance structure for overall IRWM in Santa Barbara County.

The governance structure has evolved over time, partly in response to new legislation and DWR Guidelines, to wit, Prop 84, and partly because the Cooperating Partners identified areas for improvement. As such, two subsequent MOUs (2009, 2010) have been developed and executed. Both of the subsequent MOUs have built upon the original MOU; typical language includes the purpose of the agreement and provisions for financing, indemnification, settlement of disputes, and length and termination of the agreement. They require only the signatures of the authorized representatives of the organizations. The MOUs serve to further and strengthen the IRWM process and goals for collaborative and integrated regional water management development. The March 2010 MOU added language enabling expanded membership, establishing a more inclusive governance structure and defining roles and decision-making processes. Generally, the MOU provides a basis and commitment to coherent and enduring IRWM efforts throughout the region.

### **Santa Barbara County 2007 IRWM Plan**

The County's first IRWM Plan was adopted in 2007 and enabled the County to apply for funds under Proposition 50. The County successfully obtained \$25 million in grant monies for 14 projects throughout the region. The State Grant Agreement was signed

in December, 2008 and at the date of print, three of the 14 original project funded under Prop 50 have been successfully completed.

The 2007 IRWM Plan conformed to the Guidelines in effect at the time and will need to be updated in compliance with the new IRWM Plan Guidelines released by DWR in August, 2010. Pursuant to an update, Santa Barbara County applied for planning grant funds under Prop 84 and anticipates updating the IRWM Plan to current plan standards by 2012.

Prior to an update to the IRWM Plan, however, Santa Barbara County is seeking implementation grant monies to fund actual projects through Proposition 84. The Proposition 84 Guidelines for Implementation grant funds stipulate that in order for projects to be eligible for consideration and potential funding, projects must be either included within the existing IRWM Plan or have been added to the project list for the IRWM Plan according to the procedures outlined in the Plan. In the case of Santa Barbara County, the 7 projects included in the Implementation Grant Application were added through the Biennial Review process outlined in the 2007 IRWM Plan.

### **Biennial Review – IRWM Plan Adaptive Management**

As part of an overall adaptive management strategy for the evaluation of projects and plan performance, the 2007 IRWM Plan states that the Cooperating Partners will conduct a biennial review of the IRWM Plan and evaluate Santa Barbara IRWM Plan's objectives, priorities, water management strategies, and project lists. The IRWM Plan also commits the Cooperating Partners to modifying the aforementioned Plan elements as appropriate. Specifically, the 2007 IRWM Plan describes the implementation of the adaptive management framework as follows:

*The IRWMP's overall adaptive management framework will be implemented in the following manner in accordance with the established governance practices described in Section 1:*

*1. IRWMP managers will conduct a biennial review and produce a 5-year report summarizing progress made in achieving IRWMP goals, including the tracking of funded projects, modifications to projects, and development of new projects as a result of the plan. The results of the biennial review and the 5-year report will be posted on the IRWMP Web site (<http://www.countyofsb.org/pwd/water/irwmp.htm>). The performance of implemented projects will be compared to original project objectives to ensure objectives were met.*



*2. IRWMP objectives, priorities, and water management strategies will be evaluated during the biennial review and modified appropriately. The need to develop different projects to better meet the plan objectives and regional issues will be considered, as will the need to modify existing projects. Projects that may be deleted (for example, because their purpose has been met through another project or because conditions have changed) also will be considered at this time.*

*3. Minor adjustments to planning assumptions, operations, or actions will be adopted as necessary. If significant changes to the approved IRWMP are found to be required in the biennial review or the 5-year IRWMP report, the plan will be revised and submitted for approval by Cooperating Partners as necessary.*

### **Biennial Review – Implementation**

In conformance with the above, the Cooperating Partners undertook the biennial review process between 2009 and 2010 through an extensive and exhaustive public process commencing in September 2009. Over the course of 8 months, the Cooperating Partners and the Steering Committee met no less than once per month to:

- Identify, define and scope the Region's issues, conflicts and objectives in the categories of water demand, operational efficiency and transfers, water supply, flood management, water quality and resource stewardship.
- Solicit and develop projects that align with the Region's goals and objectives as identified and updated.
- Solicit and develop projects that align with DWR's Program Preferences.
- Outline the objective and scientific processes employed in the selection of projects for inclusion into the Implementation Grant application.
- Determine criteria and sub-criteria for project selection process.
- Score, rank and select projects for inclusion in the Implementation grant application.
- Review the draft and final list of selected projects.

As a result of the biennial review, the Region identified the following objectives:

- Increase water use efficiency including water reuse and water conservation measures to increase and extend existing water supplies.
- Improve operational efficiency, transfers, and supply reliability
- Increase water supply in the least costly, most efficient, and most reliable manner
- Improve management of groundwater basins through conjunctive use
- Improve flood management to protect people, property, and ecosystems
- Improve water quality
- Improve quality of groundwater, stormwater runoff, agricultural water runoff, and treated water discharges to regional water bodies
- Improve water management to protect and restore ecosystems and wildlife habitat

Further, the biennial review process included 78 new projects in the IRWM Plan, seven of which were selected for inclusion in the implementation grant application projects based on their ranking with the established selection criteria and alignment with the Region 's objectives and DWR's Prop 84 program preferences.

The selected projects for the Implementation Grant application include:

- I. City of Santa Maria's Untreated Water Landscape Irrigation Project – Extends an existing groundwater landscape irrigation system from the City's Civic Center area to facilities with landscaped area, including Allen Hancock College, Miller Elementary school, Santa Maria High school, Santa Maria Fairpark & Adam Basin. The project allows for water use efficiency while enhancing water management efforts through delivery systems that utilize an abundant groundwater resource from the Santa Maria groundwater basin. The irrigation system consists of several old production water wells that were removed from domestic supply due to high nitrate concentrations. The wells will be rehabilitated & put into service to water turf & other landscapes through a piping system that is isolated



from the domestic supply piping. The efficient match of water resources to water use augments drought preparedness efforts within the region. Further, water reliability is strengthened by decreasing the burden on State Water Project water.

2. City of Santa Maria's LeakWatch – Allows the City to complete the installation of a water meter system which reads water use data in real time. With the LeakWatch system, real-time data is broken down to show usage by hour, which could indicate a water leak or over use if there is 24-hour activity. The system includes base stations, converted water meter registers, transmitters & associated software. Data provided by the fixed-base system is used to detect leaks & assist customers in making better decisions regarding water usage. The project estimates 250 AFY of conservation in the domestic water supply. The project will also assist with water shortage contingency planning by allowing the City to track hourly water use to assure that customers are abiding by restrictions on water use or schedules.
3. City of Guadalupe's Recycled Water Feasibility Study – The study will include a market assessment & identification of required recycled water distribution facilities as well as a cost/benefit analysis to evaluate the feasibility of supplying recycled water to the City of Guadalupe & surrounding property owners, all of whom are dependent on groundwater. The market assessment will identify potential recycled water customers, both within & adjacent to the City's boundaries & match recycled supply to potential demand. Potential customers include existing sports parks, community parks, schools, cemeteries, produce packing plants & agricultural areas. Delivery of recycled water to agricultural customers outside the service area will be evaluated differently due to the impact on overall revenues. Once reuse categories are prioritized & sets of potential customers are identified, distribution system alternatives will be explored to maximize recycled water use with the lowest capital O&M costs. The economic of recycled water distribution systems are such that larger demand will dictate the alignments of backbone pipeline routes. After alternative alignments are identified for up to three different customer sets, the required pipelines pump stations & storage reservoirs can be sited. The study will also discuss the feasibility, limitations & potential water quality impacts or groundwater recharge & compare the potential benefits with the delivery of recycled water to existing potable water customers.
4. Lompoc Valley Regional Leak Detection Program – The project is collaboration between the City of Lompoc, the Mission Hills CSD & the Vandenberg Village

CSD to complete a leak detection audit of the water distribution systems of the 3 utilities & develop & implement a 5-year plan for the repair and/or replacement of leaky water services & mains. Leak detection reports will be reviewed to determine which sections of distribution systems show the highest percentage of system leaks. A plan will be prepared for leak repair, targeting the areas with the highest percentage of leaks for sequencing of repairs.

5. Central Coast Water Authority's Pipeline Erosion Damage Repair Project – The CCWA owns & operates a pipeline that delivers water from the Santa Ynez Pumping Plant located in the Santa Ynez Valley to Lake Cachuma. There are 2 locations along the pipeline where there is exposure due to erosion of overlying soils caused by high flow releases from Bradbury Dam or high flow storm events & associated flow of water over the pipeline's alignment. These types of pipeline exposures place the pipeline at risk for failure because the exposed pipe has lost the structural confinement of backfill, an important strengthening component of the pipeline & because the exposed pipeline will bridge & obstruct water flow, which will subject the pipeline to strong external forces arising from the impact of high flow water. The project will implement both interim & long term fixes to protect the sections of the exposed pipe from further damage. The pipeline was originally constructed in the 1960's for the purposes of delivering water from Lake Cachuma to the Santa Ynez Valley. CCWA acquired the pipeline in the mid-1990's to complete its water conveyance system for its southern Santa Barbara County participants. The pipeline is comprised of a nominal 30" diameter pipe, 12 miles long & is either cement mortar line/coal tar enamel coated steel pipe or modified pre-stressed concrete cylinder pipe. The Santa Ynez Pumping Plant will discharge water into the pipeline at flow rates as high as 10,000 gpm, with a shutoff head of 376'.
6. Goleta Sanitary District's Wastewater Treatment Plant Upgrade – Upgrading the existing wastewater treatment facilities in order to be able to treat 100% of the wastewater from Goleta Valley to a full secondary treatment level. The current facilities have a design flow of 9 MGD & can treat 100% of flow to the primary level, but only 4.38 MGD can be treated to the secondary standards. The project will need to increase the capacity of the secondary treatment structures without increasing the overall capacity of the treatment plant. Construction will include a new biofilter, an aeration basin, two new secondary sedimentation tanks & the conversion of an existing stabilization basin into a flow equalization basin.



7. City of Goleta's San Jose Creek Capacity Improvement & Fish Passage Project – Removal & reconstruction of the San Jose Creek Flood Control Channel & reconstruction of the Hollister Ave. bridge over San Jose Creek. When completed, the multi-objective project will increase flood conveyance capacity, reduce flood hazard & provide fish passage for migrating endangered steelhead trout. The project will remove over 200 residential, commercial & industrial properties from the regulatory floodplain. The new channel will include an articulated concrete bottom allowing fish passage during low flow events, reduce adverse water quality impacts to Goleta Slough & increase groundwater recharge.

The following exhibits are included in this document:

- MOU 2005
- MOU 2009
- MOU 2010
- Regional Objectives
- Project Selection Process Documents

In summary, as the Cooperating Partners were a party to the biennial review, sanctioned its implementation and fully and actively involved in the process, signatures of each of the MOU signatories/authorized representatives are below. These signatures were executed in parts:

Signature of the Agency Representative:

By: Jonathan S. Frye

Name: Jonathan S. Frye

Title: Interim Deputy Public Works Director

Organization: Santa Barbara County Flood Control & Water Conservation District

Date: November 24, 2010

Signature of the Agency Representative:

By: Kathleen Rees

Name: KATHLEEN REES

Title: GENERAL MANAGER

Organization: CACHUMA OPERATIONS MAINTENANCE BOARD

Date: 11/18/10



Signature of the Agency Representative:

By: 

Name: Craig M. Murray, P.E.

Title: General Manager

Organization: Carpinteria Sanitary District

Date: November 17, 2010

Signature of the Agency Representative:

By: Carpinteria Valley Water District

Name: Robert McDonald

Title: District Engineer

Organization: Carpinteria Valley Water Dist

Date: 11/23/10

Signature of the Agency Representative:

By: 

Name: TERRI STRICKLIN

Title: SECRETARY

Organization: CASMAHA CSD

Date: 12-1-10



Signature of the Agency Representative:

By: Andrew Dudley for John Brady

Name: Andrew Dudley

Title: Engineering Technician

Organization: CENTRAL Coast Water Authority

Date: 12-1-10

Signature of the Agency Representative:

By: Rose Hess

Name: Rose Hess

Title: City Engineer

Organization: City of Buellton

Date: Dec 6, 2011

Signature of the Agency Representative:

By: 

Name: Dave Dunflinger

Title: City Manager

Organization: City of Carpinteria

Date: November 17, 2010



Signature of the Agency Representative:

By: 

Name: Daniel Singer

Title: City Manager

Organization: City of Goleta

Date: 12/6/10

Signature of the Agency Representative:

By: 

Name: REGAN M. CANDELARIO

Title: CITY ADMINISTRATOR

Organization: CITY OF GUADALUPE

Date: 11-29-10

Signature of the Agency Representative:

By: Pat Kelly

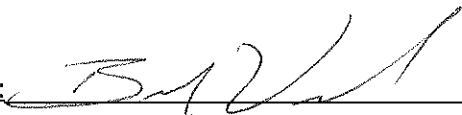
Name: ROBERT PATRICK KELLY

Title: ASSISTANT PUBLIC WORKS DIRECTOR / CITY ENGINEER

Organization: CITY OF SANTA BARBARA

Date: 12/6/10

Signature of the Agency Representative:

By: 

Name: BRAD VIDRO

Title: CITY MANAGER

Organization: CITY OF SOLVANG

Date: 11/22/10

Signature of the Agency Representative:

By: U.S. Wilson

Name: U.S. Wilson

Title: Manager

Organization: Cuyama Community Services District

Date: November 19, 2010



Signature of the Agency Representative:

By: Kathleen Werner for

Name: Kamil S. Azoury, P.E.

Title: General Manager / District Engineer

Organization: Goleta Sanitary District

Date: December 2, 2010

Signature of the Agency Representative:

By: Chris Rich

Name: Chris Rich

Title: Water Supply & Conservation Manager

Organization: Goleta Water District

Date: Dec 6, 2010

Signature of the Agency Representative:

By: 

Name: MARK NATION

Title: GENERAL MANAGER / SUPERINTENDENT

Organization: GOLETA WEST SANITARY DISTRICT

Date: 12/6/2010

Signature of the Agency Representative:

By: Martin Wilder

Name: MARTIN WILDER

Title: ENGINEERING MANAGER

Organization: LAGUNA COUNTY SANITATION DISTRICT

Date: NOVEMBER 16, 2010

Signature of the Agency Representative:

By: 

Name: Richard Sweet

Title: Utilities Director

Organization: City of Santa Maria

Date: 11/16/10



Signature of the Agency Representative:

By: Christy Griesemer

Name: Christy Griesemer

Title: Secretary

Organization: (SMVWCD) - Santa Maria Valley Water Conservation District

Date: 12-6-10

Signature of the Agency Representative:

By: Bruce A. Wales

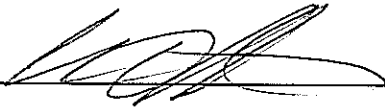
Name: BRUCE A. WALES

Title: GENERAL MANAGER

Organization: SANTA YNEZ RIVER WATER  
CONSERVATION DISTRICT

Date: November 22, 2010

Signature of the Agency Representative:

By: 

Name: CHRIS DAHLSTROM

Title: GENERAL MANAGER

Organization: SANTA YNEZ RIVER WATER CONSERVATION DIST. ID No. 1

Date: DECEMBER 1, 2010

Signature of the Agency Representative:

By: 

Name: RICHARD G. SWEET, P.E.

Title: Chair

Organization: Twitchell Management Authority

Date: December 9, 2010

Signature of the Agency Representative:

By: Joe Barget

Name: Joe Barget

Title: General Manager

Organization: Vandenberg Village CSD

Date: November 22, 2010